## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (Cancelled)
- (Currently amended) A semiconductor device, comprising:
  a recrystallized polysilicon layer located over a gate electrode layer; and
  a capacitor located on said recrystallized polysilicon layer\_over said gate
  electrode layer, said capacitor, including;
  - a first electrode:
  - an insulator located over said first electrode; and a second electrode located over said insulator,

wherein said first electrode comprises a silicide.

- (Original) The semiconductor device as recited in Claim 2 wherein said first electrode comprises cobalt silicide.
- 4. (Previously Presented) The semiconductor device as recited in Claim 2 wherein said first electrode has a surface roughness ranging from about 1 nm to about 2 nm.
- (Previously Presented) A semiconductor device, comprising: a recrystallized polysilicon layer located over a gate electrode layer; and a capacitor located on said recrystallized polysilicon layer, said capacitor, including:

a first electrode:

an insulator located over said first electrode; and

a second electrode located over said insulator:

wherein at least a portion of said recrystallized polysilicon layer forms a portion of said first electrode and wherein said recrystallized polysilicon layer has a final thickness ranging from about 7 nm to about 35 nm.

- 6. (Cancelled).
- 7. (Previously Presented) A semiconductor device, comprising:

a recrystallized polysilicon layer located over a gate electrode layer; and

a capacitor located on said recrystallized polysilicon layer, said capacitor,

including;

a first electrode;

an insulator located over said first electrode; and

a second electrode located over said insulator;

wherein said gate electrode layer is a polysilicon layer and said recrystallized polysilicon layer is located on said polysilicon layer.

- (Original) The semiconductor device as recited in Claim 7 wherein said polysilicon layer and said recrystallized polysilicon layer form at least a portion of a gate electrode stack.
- (Previously Presented) A method for manufacturing a semiconductor device, comprising:

forming an amorphous silicon layer over a substrate;

changing said amorphous silicon layer to a recrystallized polysilicon layer by subjecting said amorphous silicon layer to an annealing process, said annealing process causing said amorphous silicon layer to become said recrystallized polysilicon layer; and

creating a capacitor on said recrystallized polysilicon layer, said capacitor including;

a first electrode;

an insulator located over said first electrode;

a second electrode located over said insulator.

10. (Original) The method as recited in Claim 9 wherein forming an amorphous silicon layer includes depositing an amorphous silicon layer having a thickness ranging from about 15 nm to about 75 nm.

## 11. (Cancelled)

- 12. (Previously Presented) The method as recited in Claim 9 wherein subjecting said amorphous silicon layer to an annealing process includes subjecting said amorphous silicon layer to a temperature ranging from about 1000□C to about 1100□C.
- 13. (Original) The method as recited in Claim 9 wherein forming an amorphous silicon layer over a substrate includes forming an amorphous silicon layer on a polysilicon layer, wherein said amorphous silicon layer and said polysilicon layer form at least a part of a gate electrode stack.

- 14. (Original) The method as recited in Claim 13 wherein said amorphous silicon layer has a thickness ranging from about 15 nm to about 75 nm and said polysilicon layer has a thickness ranging from about 50 nm to about 150 nm.
- 15. (Original) The method as recited in Claim 9 wherein creating a capacitor first electrode includes creating a capacitor first electrode comprising a silicide.
- (Original) The method as recited in Claim 14 wherein said silicide comprises cobalt silicide.
- 17. (Original) The method as recited in Claim 9 wherein creating a capacitor first electrode includes creating a capacitor first electrode having a surface roughness ranging from about 1 nm to about 2 nm.
- 18. (Original) The method as recited in Claim 9 wherein creating a capacitor first electrode includes creating a capacitor first electrode having a thickness ranging from about 15 nm to about 70 nm.

19. (Original) An integrated circuit, comprising:

transistors located over a substrate, wherein at least one of said transistors includes a gate electrode stack comprising a recrystallized polysilicon layer located over a gate electrode layer;

a capacitor located on said recrystallized polysilicon layer, said capacitor including;

a first electrode:

an insulator located over said first electrode; and

a second electrode located over said insulator; and

an interlevel dielectric layer located over said substrate, said interlevel dielectric layer having interconnects located therein for contacting at least one of said gate electrode stack or said capacitor.

- 20. (Original) The integrated circuit as recited in Claim 18 wherein at least a portion of said recrystallized polysilicon layer forms a portion of said first electrode.
- (Original) The integrated circuit as recited in Claim 18 wherein said transistors are selected from the group consisting of:

a CMOS transistor:

a bipolar transistor; and

a biCMOS transistor.